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BIM - Smarter Way towards Construction by Kimberly Smith

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Since few years Building Information Modeling BIM is playing a vital role in construction industries. Building Information Modeling has a bigger influence in improving the production in construction sector. Thus BIM nowadays can be called as smarter way towards efficient construction progress. BIM is most recent invention and contribution of IT sector towards construction sector. It is also considered as an innovative gift by IT development sector to improve and develop construction sector to cope up the modernized facilities and luxuries over the globe. BIM helps to improve the construction drawings, thus resulting into error free drawings.

BIM is a single platform in which different views like sectional, plan; side views etc. are coordinated together. After the coordination a single detailed 3D model is created using various softwareâ€™s. This model can be called as smart BIM model and is used at the construction sites for further construction activities. By working with BIM we can even plan steps of progression along with time frames as well as cost estimations. This time frames and costs estimations are specialized features provided by BIM and are called as 4D and 5D respectively. BIM also provides the BOQâ€™s i.e. Bill of Quantities or BOMâ€™s i.e. Bill of Materials as well as time based data schedules. These BOQâ€™s are implemented at construction site when actual work is initiated.

Construction of complex infrastructures is impossible without applying design concept in BIM. So the structural engineers by applying their design concepts create 3D BIM models. Thus after creating models these are delivered to clients for further process of construction and work can be easily initiated at sites with the help of 3D BIM smart data rich models. Journey from BIM to Construction / Integration stages between BIM and construction:

The journey from BIM to construction consists of following integrated stages:

â€¢ Basic Conceptual Designing:

In this stage structural engineer, an architect develops their ideas and concepts fulfilling the clients requirement. Coordination, collection of ideas, selection of most feasible way to proceed, technical resources availability are the major steps included in under this phase.

â€¢ Final designing and 3D modeling:

Implementation of above ideas and concepts contributes towards final designing and final construction drawings are created using design concepts. Using this drawing 3D BIM models are created by experienced modelers.

â€¢ Tendering Stage:

The process of handling over all the BIM documentation as well as BIM model to contractor can be called as Tendering stage. Overall cost estimation and pricing is done in this stage.

â€¢ Construction Stage:

The contractorâ€™s estimations and documentations help to initiate or start up with actual construction at site.

Thus, there are four above described integration stages between BIM and Construction process.

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